|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Species** | **APG 3 six-letter code** | **Families** | **Habit** | **Dispersal mode** | **Source trait data** |
| *Alchornea costaricensis* Pax & K. Hoffm. | Alchco | Euphorbiaceae | T | Birds + Mammals |  |
| *Alibertia edulis* (rich.) a. Rich. ex DC. | Alibed | Rubiaceae | U | Birds + Mammals |  |
| *Allophylus racemosus* Sw. | Allora | Sapindaceae | T | Birds + Mammals |  |
| *Apeiba tibourbou* Aubl. | Apeiti | Malvaceae | M | Birds + Mammals |  |
| *Baccharis trinervis* Pers. \* | Bacctr | Asteraceae | S | Wind | [Sugden, 1982](#_ENREF_1_11) |
| *Calathea lutea* Schult. | Calalu | Marantaceae | Musoid | Birds + Insects | Levey *et al.,* 2002 |
| *Calycophyllum candidissimum* (Vahl) DC. | Calyca | Rubiaceae | T | Wind | Smithsonian Tropical Research |
| *Carludovica palmata* Ruiz & Pav. | Carlpa | Cyclanthaceae | Palm | Birds + Mammals |  |
| *Chaptalia nutans* (L.) Pol. | Chapnu | Asteraceae | Herb | Wind | USDA: Plants.usda.gov |

*Table S1: Continuation.*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Species** | **APG 3 six-letter code** | **Families** | **Habit** | **Dispersal mode** | **Source trait data** |
| *Chiococca alba* (L.) Hitchc. | Chioal | Rubiaceae | Climber | Birds + Mammals | Smithsonian Tropical Research |
| *Chromolaena odorata* (L.) R.M. King & H. Rob.\* | Chrood | Asteraceae | S | Wind | [Blackmore, n.d.](#_ENREF_1_2) |
| *Cinnamomum triplinerve* (Ruiz & Pav.) Kosterm. | Cinntr | Lauraceae | S | Birds+Mammals |  |
| *Cissus erosa* Rich. | Cisser | Vitaceae | Climber | Birds | [Griz and Machado, 2001](#_ENREF_1_6) |
| *Conostegia speciosa* Naudin | Conosp | Melastomataceae | S | Birds + Mammals | Smithsonian Tropical Research |
| *Costus villosissimus* Jacq. | Costvi | Costaceae | Herb |  | [Bongers et al., 1988](#_ENREF_1_3) |
| *Cyperus luzulae* (L.) Rottb. ex Retz. | Cypelu | Cyperaceae | Grass | Wind |  |
| *Desmodium axillare* (Sw.) DC.\* | Desmax | Fabaceae | Climber | Mammals | [Smithsonian Tropical Research Institute, n.d.](#_ENREF_1_10) |
| *Desmodium cajanifolium* (Kunth) DC. | Desmca | Fabaceae | Climber | Mammals | [Croat, 1978](#_ENREF_1_4) |
| *Diphysa americana* (Mill.) M. Sousa | Dipham | Fabaceae | T | Birds |  |
| *Doliocarpus dentatus* (Aubl.) Standl. | Dolide | Dilleniaceae | Climber | Birds | [Smithsonian Tropical Research Institute, n.d.](#_ENREF_1_10) |
| *Fleischmannia sinclairii* (Benth. ex Oerst.) R.M.King & H.Rob.\* | Fleisi | Asteraceae | Herb | Wind | [Croat, 1978](#_ENREF_1_4) |
| *Flemingia strobilifera* (L.) R. Br.\* | Flemst | Fabaceae | S | Birds |  |

*Table S1: Continuation*.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Species** | **APG 3 six-letter code** | **Families** | **Habit** | **Dispersal mode** | **Source trait data** |
| *Gouania lupuloides* (L.) Urb. | Goualu | Rhamnaceae | Climber | Wind | [Smithsonian Tropical Research Institute, n.d.](#_ENREF_1_10) |
| *Helicteres guazumifolia* Kunth | Heligu | Malvaceae | Musoid |  |  |
| *Heterocondylus vitalbae* (DC.) R.M. King & H. Rob.\* | Hetevi | Asteraceae | Herb | Wind | [Holl, 2002](#_ENREF_1_7); [Croat, 1978](#_ENREF_1_4) |
| *Hyeronima alchorneoides* Allemão | Hyeral | Phyllanthaceae | T | Birds + Mammals |  |
| *Inga punctata* Willd. | Ingapu | Fabaceae | U | Birds + Mammals | [Smithsonian Tropical Research Institute, n.d.](#_ENREF_1_10) |
| *Ipomoea phyllomega* House | Ipomph | Convolvulaceae | Climber | Wind | [Smithsonian Tropical Research Institute, n.d.](#_ENREF_1_10) |
| *Lantana camara* L. | Lantca | Verbenaceae | S | Birds | [Asia-Pacific Forest Invasive Species Network, n.d.](#_ENREF_1_1) |
| *Lepidaploa canescens* (Kunth) Cass.\* | Lepica | Asteraceae | S | Wind | [Smithsonian Tropical Research Institute, n.d.](#_ENREF_1_10) |
| *Luehea seemannii* Triana & Planch. | Luehse | Malvaceae | T | Wind | [Smithsonian Tropical Research Institute, n.d.](#_ENREF_1_10) |
| *Machaerium milleflorum* Pittier\* | Machmi | Fabaceae | Climber | Wind | [Smithsonian Tropical Research Institute, n.d.](#_ENREF_1_10) |
| *Miconia argentea* (Sw.) DC.\* | Micoar | Melastomataceae | M | Birds + Mammals |  |

*Table S1: Continuation*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Species** | **APG 3 six-letter code** | **Families** | **Habit** | **Dispersal mode** | **Source trait data** |
| *Mikania micrantha* Kunth\* | Mikami | Asteraceae | Climber | Wind | [Asia-Pacific Forest Invasive Species Network, n.d.](#_ENREF_1_1) |
| *Mimosa casta* L. | Mimoca | Fabaceae | Climber |  |  |
| *Momordica charantia* L. | Momoch | Cucurbitaceae | Climber | Birds + Mammals | [Morellato and Leitao, 1996](#_ENREF_1_9) |
| *Myrcia gatunensis* Standl. | Myrcga | Myrtaceae | U | Birds + Mammals |  |
| *Paullinia rugosa* Benth. ex Radlk. | Paulru | Sapindaceae | Climber | Birds | [Smithsonian Tropical Research Institute, n.d.](#_ENREF_1_10) |
| *Phyllanthus niruri* L.\* | Phylni | Phyllanthaceae | Climber | Gravity | [Martinez-Garza and Gonzalez-Montagut, 1999](#_ENREF_1_8) |
| *Piper colonense* C. DC. | Pipeco | Piperaceae | S | Bats + Birds |  |
| *Piper marginatum* Jacq.\* | Pipema | Piperaceae | S | Bats + Birds |  |
| *Piper peltatum* Ruiz & Pav.\* | Pipepe | Piperaceae | S | Bats + Birds |  |
| *Piper pseudofuligineum* C. DC.\* | Pipeps | Piperaceae | S | Bats + Birds |  |
| *Rhynchosia precatoria* (Humb. & Bonpl. ex Willd.) DC. | Rhynpr | Fabaceae | Climber | Birds | [Smithsonian Tropical Research Institute, n.d.](#_ENREF_1_10) |
| *Sabicea villosa* Ruiz & Pav. | Sabivi | Rubiaceae | Climber |  | [Smithsonian Tropical Research Institute, n.d.](#_ENREF_1_10) |

*Table S1: Continuation*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Species** | **APG 3 six-letter code** | **Families** | **Habit** | **Dispersal mode** | **Source trait data** |
| *Scleria melaleuca* Rchb. ex Schltdl. & Cham.\* | Scleme | Cyperaceae | Grass | Wind | [Martinez-Garza and Gonzalez-Montagut, 1999](#_ENREF_1_8) |
| *Solanum jamaicense* Mill. | Solaja | Solanaceae | S | Birds + Mammals |  |
| *Solanum subinerme* Jacq. | Solasu | Solanaceae | S | Birds + Mammals |  |
| *Stigmaphyllon hypargyreum* Triana and Planch. | Stighy | Malpighiaceae | Climber | Wind | [Smithsonian Tropical Research Institute, n.d.](#_ENREF_1_10) |
| *Tectona grandis* L. f. | Tectgr | Verbenaceae | T | Birds + Mammals |  |
| *Terminalia amazonia* (J.F. Gmel.) Exell | Termam | Combretaceae | T | Wind | [Smithsonian Tropical Research Institute, n.d.](#_ENREF_1_10) |
| *Uncaria tomentosa* (Willd. ex Roem. & Schult.) DC. | Uncato | Rubiaceae | Climber | Wind | [Smithsonian Tropical Research Institute, n.d.](#_ENREF_1_10) |
| *Vernonia patens* (Kunth) H. Rob.\* | Vernopa | Asteraceae | Herb | Wind | [Smithsonian Tropical Research Institute, n.d.](#_ENREF_1_10) |
| *Xylopia macrantha* Triana & Planch. | Xyloma | Annonaceae | U | Birds | [Smithsonian Tropical Research Institute, n.d.](#_ENREF_1_10) |
| *Zuelania guidonia* (Sw.) Britton & Millsp. | Zuelgu | Salicaceae | M |  | [Smithsonian Tropical Research Institute, n.d.](#_ENREF_1_10) |

**Literature cited:**

Asia-Pacific Forest Invasive Species Network. n.d. Lantana Camara. <http://www.fao.org/forestry/>

Blackmore, A. C. n.d. Seed dispersal of *Chromolaena odorata* reconsidered. Natal Parks Board, St Lucia Research, St Lucia Estuary, KwaZulu-Natal, 3936, South Africa.

Bongers, F., J. Popma, J. M. Delcastillo, and J. Carabias. 1988. Structure and floristic composition of the lowland rain-forest of Los Tuxlas, Mexico. Vegetatio **74**:55-80.

Croat, T. 1978. Flora of Barro Colorado Island. Stanford University Press, Stanford, Calif. 943 pp.

Frenedozo, R. C. 2004. Plant reproductive phenology and dispersal patterns after natural regeneration in a limestone mining spoil bank. Brazilian archives of biology and technology **47**:261-271.

Griz, L. M. S. and I. C. S. Machado. 2001. Fruiting phenology and seed dispersal syndromes in caatinga, a tropical dry forest in the northeast of Brazil. Journal of Tropical Ecology **17**:303-321.

Holl, K. D. 2002. Effect of shrubs on tree seedling establishment in an abandoned tropical pasture. Journal of Ecology **90**:179-187.

Martinez-Garza, C. and R. Gonzalez-Montagut. 1999. Seed rain from forest fragments into tropical pastures in Los Tuxtlas, Mexico. Plant Ecology **145**:255-265.

Morellato, P. C. and H. F. Leitao. 1996. Reproductive phenology of climbers in a Southeastern Brazilian forest. Biotropica **28**:180-191.

Smithsonian Tropical Research Institute. n.d. Plant species list. Smithsonian Tropical Research Institute.

Sugden, A. M. 1982. Long-distance dispersal, isolation, and the cloud forest flora of the Serrania de Macuira, Guajira, Colombia. Biotropica **14**:208-219.

World Agroforestry Centre. n.d. *Agroforestry Tree Database*. Retrieved September, 2011, from <http://www.worldagroforestry.org/SEA/Products/AFDbases/AF/asp/SpeciesInfo.asp?SpID=>. 15 August.

Wright, I. J. 2007. The bushmeat harvest alters seedling banks by favoring lianas, large seeds, and seeds dispersed by bats, birds, and wind. . Biotropica **39**:363-371.

Wright, I. J., D. D. Ackerly, F. Bongers, K. E. Harms, G. Ibarra-Manriquez, M. Martinez-Ramos, S. J. Mazer, H. C. Muller-Landau, H. Paz, N. C. A. Pitman, L. Poorter, M. R. Silman, C. F. Vriesendorp, C. O. Webb, M. Westoby, and S. J. Wright. 2007. Relationships among ecologically important dimensions of plant trait variation in seven Neotropical forests. Annals of Botany **99**:1003-1015.

Wright, S. J., K. Kitajima, N. J. B. Kraft, P. B. Reich, I. J. Wright, D. E. Bunker, R. Condit, J. W. Dalling, S. J. Davies, S. Diaz, B. M. J. Engelbrecht, K. E. Harms, S. P. Hubbell, C. O. Marks, M. C. Ruiz-Jaen, C. M. Salvador, and A. E. Zanne. 2010. Functional traits and the growth-mortality trade-off in tropical trees. Ecology **91**:3664-3674.